NOTICE OF STUDY SESSION Solid Waste Rate Study CITY HALL, Fifth Floor 6801 Delmar Blvd., University City, Missouri 63130 Monday, July 8, 2024 5:30 p.m.

AGENDA

- 1. Meeting called to order
- 2. Solid Waste Rate Study
- 3. Adjournment

The public may also observe via: Live Stream via YouTube: https://www.youtube.com/channel/UCyN1EJ_-Q22918E9EZimWoQ

Posted 5th day of July, 2024. LaRette Reese City Clerk, MRCC

Solid Waste Rate Study **FINDINGS & RECOMMENDATIONS PRESENTED TO CITY COUNCIL** JULY 08, 2024











Project Tasks

- Data Request and Review
- Benchmarking Research
- Financial Cornerstones
 - **×** Direct Operating Expense
 - **×** Contracted Disposal
 - × CIP
 - **×** Vehicle Replacement
- Revenue Sufficiency
- Cost Allocation Functions
- Full Cost vs. Current Rates
- Rate Design
- Recommendations

Trash & Recycling System Cost Centers

Collection Services: Curbside Trash	Facility Operations:
Alley Container Trash	Transfer Station
Curbside Recycling	Recycling Drop-off (at T.S.)
Curbside Yard Waste	
Bulky Collection	
Commercial Container Trash	
Commercial Container Recycling	Management & Administration
Recycling Drop-off	(Includes cost of billing)

Collection Routes

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Type of Service	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.	Wks/Yr	Total
Residential Curbside Refuse Carts - ASL	2.00	2.00	2.50	2.00	2.00		52	10.50
Residential Curbside Recycling Carts - ASL	2.00	2.00	2.50	2.00	2.00		52	10.50
Residential Yard Waste - Rearload	1.00	1.00	1.00	1.00	1.00		52	5.00
Bulk Waste - RL & Grapple 3wks in April & September	3.00	3.00	3.00	3.00	3.00		6	1.73
Special Pickup - Bulk for fee			0.25		0.25		46	0.44
Commercial/Multifamily/1-2 Fam Alley Refuse Dumpsters - Sideload "Mechanical"	2.00	2.00	1.00	2.00	2.00		52	9.00
Commercial/Multifamily .Recycling Dumpsters - Sideload "Mechanical"			1.00			0.50) 52	1.50
R-O - only special request & drop-off, no "route"	0.25	0.25	0.25	0.25	0.25	0.50	52	1.25
Total Weekly Routes	10.25	10.25	11.50	10.25	10.50	0.50	J	39.92

Challenges Since Last (2018) Study

- Pandemic
- Flooding in 2022 loss of trucks
- Transfer Station
 - Compactor on last leg
- Recyclables processing fees



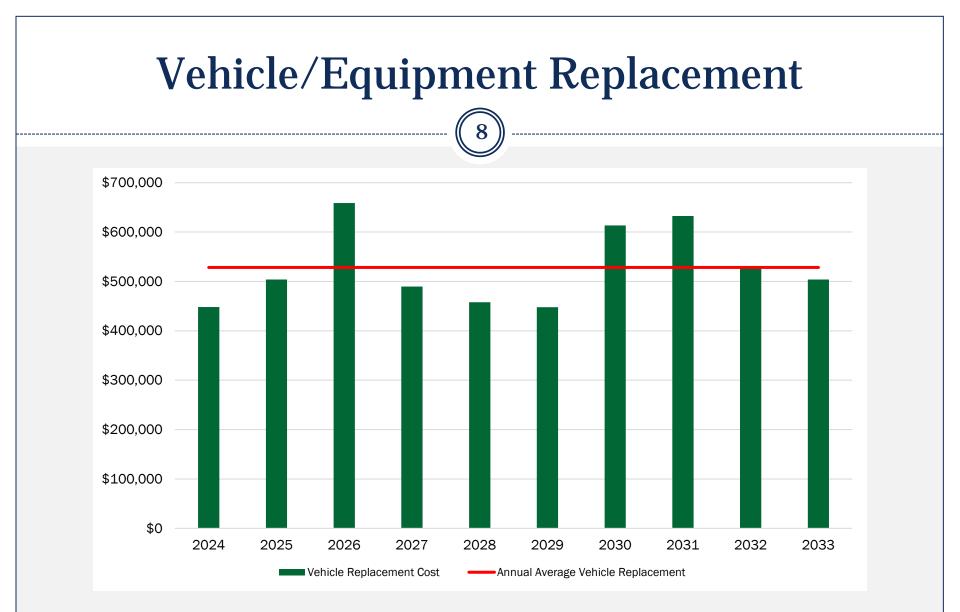
Financial Data Overview

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Historical Financial Performance						
	Actual 2021	Actual 2022	Actual 2023	Budgeted 2024		
Revenue			\$5,384,180*	\$3,291,200 \$2,656,887		
Expenses** Surplus(Deficit) *Includes a \$2 278 26	(\$851,482)	\$4,101,817 (\$993,756)	\$4,081,844 \$1,302,336	\$3,656,887 (\$365,687)		

*Includes a \$2,278,261 Transfer In

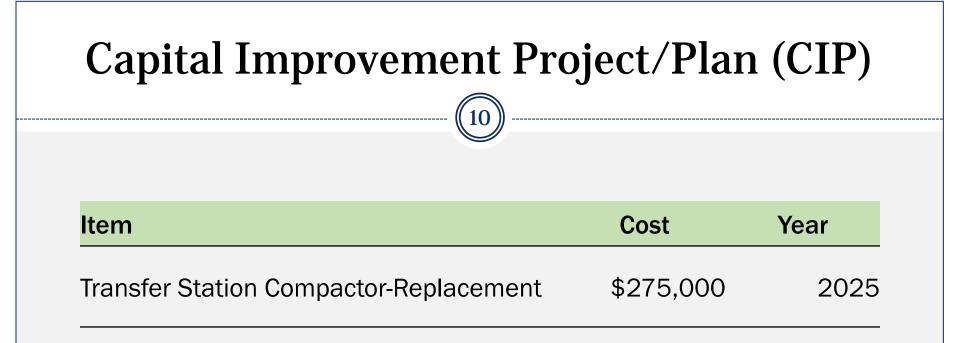
**2021-2023 included \$400-\$500,000/year Leaf Collection, 2024 does not



Estimated current replacement value = \$5.3 million

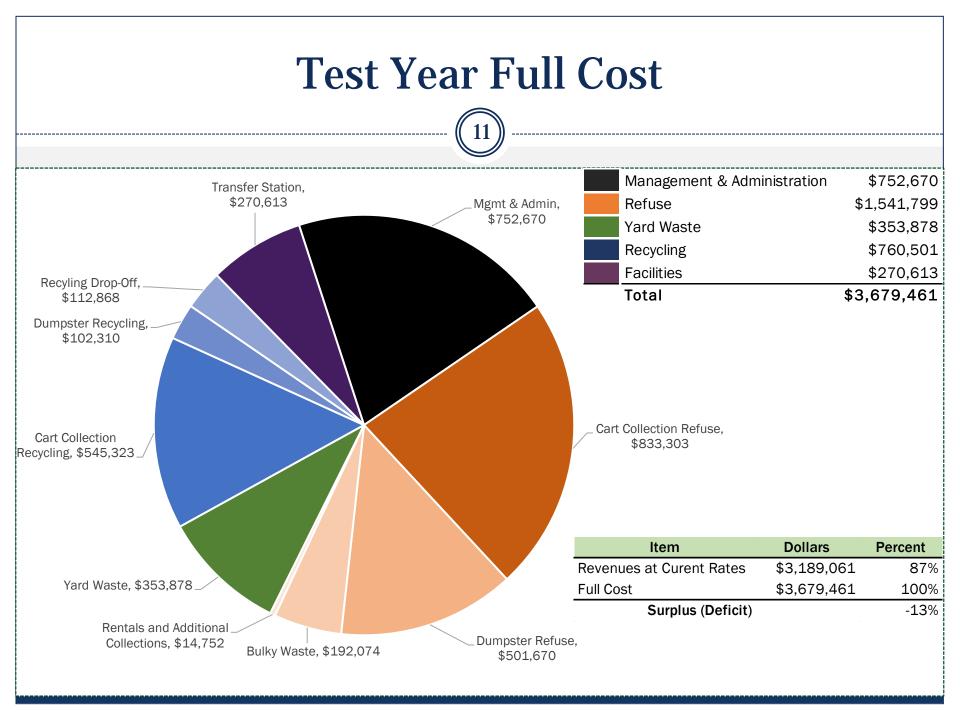
Aged Fleet and Equipment

Туре	Typical Life Expectancy	•	Avg. Age of Daily Use Units	Spares
Automated Sideloader (Carts)	8	5	6.4	2
Automated Sideloader (Dumpsters)	8	3	3 14.0	1
Roll Off Truck	10	1	9.0	
Transfer Trailers	15	3	3 14.7	
Road Tractors	12	2	2 12.5	1
Rear Loader	9	Z	14.0	



Including 3% CPI per year, this is a 10-Year Average Rate Impact = \$29,175

Cash outlay is in Year 1



A	llocated Full	Costs by Servic	e Sector
\$3,000,000			
\$2,500,000	_− Bulky Waste	e, \$244,363	
\$2,000,000	C	urbside Yard Waste, \$438,258	
\$1,500,000		side Recycling, \$680,835	
\$1,000,000		Commercial Container Recycling, \$163,611	
\$500,000	Curbside R \$1,052,		Transfer Station, \$335,586 Recycling Drop-off, \$138,325
\$0	Residential Collection	Commercial Collection	Facilities

MSW format 2024 Full Cost



Cost Center	Annual Revenue Need	Adjusted Annual Revenue Need
Mgmt & Admin	\$752,670	
Collection	\$2,543,310	\$3,537,421
Cart Collection Refuse	\$819,636	\$1,264,461
Cart Collection Recycling	\$533,071	\$686,271
Yard Waste	\$353,878	\$445,345
Bulky Waste	\$192,074	\$260,222
Dumpster Refuse	\$501,075	\$733,935
Dumpster Recycling	\$102,254	\$128,754
Container Maintenance	\$26,569	\$0
Rentals and Additional Collections	\$14,752	\$18,433
Facilities	\$383,481	\$142,041
Transfer Station	\$270,613	\$0
Recyling Drop-Off	\$112,868	\$142,041
Total	\$3,679,461	\$3,679,461

Tonnage Overview

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Material	Destination Facility	Tons	Disposal Cost/Ton	Disposal Cost
Residential Refuse	City Transfer Station then Champ LF	7,978	\$60.17	\$480,036
Commercial Refuse	City Transfer Station then Champ LF	3,785	\$60.17	\$227,743
Residential Recycling	Republic Services MRF	1,743	\$111.00**	\$193,516
Commercial Recycling	Republic Services MRF	402	\$111.00**	\$44,622
Yard Waste	City Park then St. Louis Composting	1,448*	\$40.06	\$67,000
Bulk Waste	City Transfer Station then Champ LF	684	\$60.17	\$41,162
Subtotal		16,040		\$1,054,080
Transfer Station		12,447	\$26.83	\$334,003
Total				\$1,388,083

*Tons estimated based on volume

**Average Net per Ton recent 6 months

Full Cost Rate (Residential) Building blocks

Service	Full Cost (Monthly) Per HH/Unit	Full Cost 2/year Rate Per HH/Unit
Refuse 60-Gal Cart, 1x/week	\$8.36	\$50.16
Refuse 90-Gal Cart, 1x/week	\$9.79	\$58.75
Recycling Cart, 1x/week	\$3.45	\$20.70
Alley and 3+ Unit Dumpster Refuse, 2x/week	\$15.34	\$92.01
3+ Unit Dumpster Recycling, 2x/week	\$2.35	\$14.12
Yard Waste (collection cost to pass by weekly)	\$2.17	\$13.02
Bulk Waste	\$1.26	\$7.56
Recycling Drop-off	\$0.69	\$4.14

Residential Full Cost Rates



Commercial Refuse 6-Month Rates

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Current Rates

			Frec	quency		
Size	1	2	3	4	5	6
2	\$408	\$571	N/A	N/A	N/A	N/A
3	\$442	\$618	N/A	N/A	N/A	N/A
4	\$478	\$670	\$937	\$1,312	\$1,837	\$2,572

Annual Revenue

\$54,585

Full Cost Rates

			Freq	uency		
Size	1	2	3	4	5	6
2	\$342	\$685	N/A	N/A	N/A	N/A
3	\$390	\$780	N/A	N/A	N/A	N/A
4	\$438	\$876	\$1,314	\$1,752	\$2,190	\$2,628
Annual Revenue Need					\$64,	080

Commercial Recycling 6-Month Rates

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Currently No Rates Charged

Full Cost Rates

1	2	3	4	5	6
580	\$1,160	\$1,740	\$2,319	\$2,899	\$3,479
651	\$1,302	\$1,953	\$2,603	\$3,254	\$3,905
722	\$1,444	\$2,166	\$2,887	\$3,609	\$4,331
, ,	651	651 \$1,302	651 \$1,302 \$1,953	651 \$1,302 \$1,953 \$2,603	580\$1,160\$1,740\$2,319\$2,899651\$1,302\$1,953\$2,603\$3,254722\$1,444\$2,166\$2,887\$3,609

Annual Revenue Need

\$47,950

Cost of Service Findings

- Total allocated full cost is up from \$3,466,090 (with Leaf Collection in 2018) to \$3,679,461 (without Leaf Collection)
- Residential collection, whether from curbside or dumpster, is the predominant service line from which to recover revenue.
- Commercial garbage rates are out of balance (varying revenue shortage based on size and frequency).
- Commercial recycling has historically been fully subsidized by commercial garbage collection or other budgetary transfers.
- Roll-off has a very small customer base, flat rate includes placement and one service. Reported tonnage indicates 4.8 tons per service and the minimally used service is a money loser.

Rate Design

Residential Rates

One- and Two-Family Collections

 Current Two-Family rates are higher than One-Family rates.
 Recommending these be the same since each family receives the same services and each account is billed for two families.

Proposed Rate Path

★ 8.5% increase in year 1 with the exception of equilibrating the twofamily rate charged per family to be the same per family as the one-family rate

Residential Rates cont.



3+ unit Multi-family mechanical dumpsters

- Deficit: 63% for the 2x/week collection
- Proposed Rate Path
 - ★ 40% increase per unit is still less than the full cost and less than all one- and two-family rates (except senior rates)

• 3+ unit Multi-family 90-Gal cart

- Cost is similar to the curbside cart customers, though reasonably would be somewhat less since emptying multiple carts at the same stop (exact numbers per account not available for review)
- Proposed Rate Path
 - ★ Align with the one- and two-family rate (slight reduction in current rate)

Recommended Residential Rate Path

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	Current Rates		Proposed Rates		
		2x/Yr		2x/Yr	
	Monthly	Billing	Monthly	Billing	Percent
Residential Collection	Rate	Rate	Rate	Rate	Change
Single 90 Gal Refuse & Recycling 1x/wk	\$18.35	\$110.10	\$19.91	\$119.46	8.5%
Two Family 90 Gal Refuse & Recycling 1x/wk	\$21.05	\$126.30	\$19.91	\$119.46	-5.4%
Single & Two Family 60 Gal Refuse & Recycling - Senior	\$15.55	\$93.30	\$16.87	\$101.23	8.5%
Single 2x/wk Alley Dumpster Refuse & 1x/wk Recycling Cart	\$19.74	\$118.44	\$21.42	\$128.51	8.5%
Two Family 2x/wk Alley Dumpster Refuse & 1x/wk Recycling Cart	\$22.64	\$135.84	\$21.42	\$128.51	-5.4%
Single 2x/wk Alley Dumpster Refuse & 1x/wk Recycling Cart - Senior	\$17.09	\$102.54	\$18.54	\$111.26	8.5%
3+ Units - Alley Mechanical Dumpsters 2x/wk - Refuse & Recycling	\$13.10	\$78.60	\$18.34	\$110.04	40.0%
3+ Units - 90 Gal Refuse & Recycling 1x/wk	\$21.05	\$126.30	\$19.91	\$119.46	-5.4%

Note: 3% CPI escalations are recommended in year 3 and 4 and CPI escalations require an ordinance change

Other Residential Rate Considerations

- Drop-off Recycling at the Transfer Station is recovered through all residential rates
- Yard Waste sticker program
 - Cost of running collection truck through all neighborhoods has been incorporated into the full cost of all residential collection services
 - Disposal cost is recovered through the Sticker sales. Recommend a 6.7% increase to \$1.60 per sticker
- CPI escalation in years 3 and 4 would be required in addition to the proposed rate increases to maintain the reserve requirement during the a 5-year Cash Flow

Residential Rates – Benchmarked Communities



Rate Structure	University City (Public)	Kirkwood (Public)	Saint Peters (Public)	Ballwin (Contract)	Clayton (Contract)	Brentwood (Public)	Florissant (Contract)
2018 Rates	\$110.10 (\$18.35/mo.)	\$20.50	\$24.25	\$21.66	\$27.07	"Offered at no charge to residents"	\$15.50
Single Family Trash Pickup Rate Structure: Price of first cart/can/bag	\$110.10 (\$18.35/mo.)	\$27.23	\$26.16 +\$30 Activation Fee	\$21.66	\$53.19	"Offered at no charge to residents"	\$16.45
Frequency Billed	Every 6 Months	Monthly	Every 2 Months	Every 3 Months	Monthly	N/A - Included in Taxes	Monthly

Commercial Rate Considerations

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- 60 commercial refuse accounts, 14 commercial recycling dumpsters
 - Refuse rates are 17.4% deficient overall, and imbalanced rate structure depending on size, service frequency and number of dumpsters per account
 - Recycling service has historically been provided for "free" due to material markets offsetting processing charges. Since market challenges in 2018, processing charges have not offset costs. Recently cost averaging \$111/ton.

• Options

- Continue service and increase rates
 - ➤ Proposed 10%-68% refuse dumpster increase, varying depending on size, frequency and number of dumpsters
 - ▼ Establish commercial recycling rates at 80% of refuse rate
 - ▼ In addition to Year 1 rate increases, 3% CPI increase in year 3 and 4
- Privatize commercial sanitation collection
- Continue subsidizing

Roll-off Rate Considerations

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• 30 roll-off services reported in most recent year

- Roll-off truck primarily supports the Recycling Drop-off
- Operator supports various collection services
- Reported tonnage indicates an average of 4.8 tons/pull

	Current	Full Cost	Proposed	%
Roll-off Collection	Rate	Rate	Rate	Different
Refuse 30 CY Roll-Off (10 Business Day Drop and Pull)	\$300.00	\$327.36	\$330.00	10.0%
Refuse 30 CY Roll-Off (Disposal Charge) per Ton	N/A	\$60.17	\$60.17	
Rate if not charging disposal per Ton, avg. 4.8 tons/pull		\$616.18		

• Recommend recovering costs by rates or do not offer roll-off service

Summary

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• Solid waste services are critical for maintaining a healthy standard of living.

• Rising costs of labor, equipment & fuel the past few years result in full costs being more than current rate revenue.

• Rate increases are required to maintain the financial health of the enterprise for the future.



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CYNTHIA MORMILE, SR. PROJECT MANAGER <u>CMORMILE@MSWCONSULTANTS.COM</u>

573-818-2281

